

**FIRE INVESTIGATOR II
STUDY GUIDE**

A written examination for the class of **FIRE INVESTIGATOR II** to be administered in **LAFAYETTE** on **OCTOBER 15, 2014**, will consist of approximately **100** multiple-choice questions. The examination will test your knowledge in the following subject areas:

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
FIRE INSPECTION PROCEDURES Knowledge of the processes and procedures necessary to conduct fire inspections.	5.0%
FIRE CODES Knowledge of fire codes, of the legal authority under which the duties of code enforcement are performed, and of liabilities incurred as a result of this authority, including calculation of occupant loads..	5.0%
FIRE HAZARDS Knowledge of the factors which constitute ordinary or special fire hazards, including materials, conditions, or negligence which may contribute to the start of a fire, or increase the extent or severity of a fire incident.	7.0%
FIRE INVESTIGATION Knowledge of the procedures for conducting a fire investigation and for determining the cause of a fire, including deciding what may be considered unusual at a fire scene; char and burn patterns; factors affecting fire spread; determination of the point of origin and probable cause of a fire; reconstruction of the fire scene; estimation of loss or damage caused by the fire; interview and interrogation procedures; and law enforcement procedures related to fire investigations.	20.0%
EVIDENCE COLLECTION Knowledge of evidence collection practices and procedures, including knowledge of what constitutes admissible evidence in a court of law; of the procedures for securing and protecting evidence and the legal parameters relative to evidence security; of the use of basic photography equipment; and of laboratory requirements for processing evidence.	7.0%
FIRE CHEMISTRY Knowledge of the chemistry of fire, including ignition temperatures and properties of flammable and combustible materials, flame and smoke spread, and products of combustion.	9.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
BUILDING CONSTRUCTION Knowledge of building construction components installed for fire-related purposes; including the purpose of rated building construction and where such is required; and building construction classification.	8.0%
JUDICIAL & COURTROOM PROCEDURES/COURT TESTIMONY Knowledge of the judicial system and legal procedures as they relate to fire investigation; of general courtroom and trial procedures; and of recommended courtroom demeanor and testimony.	6.0%
FIRE RECORDS & REPORTS Knowledge of effective records-management practices, including preparation, content, control, format, and retention of records of the investigation, and of the information gathering process and procedures for completing required reports, including completing necessary sketches and diagrams, in order to document the performance of fire investigation duties.	9.0%
FIRE PROTECTION AND WATER SUPPLY SYSTEMS Knowledge of sprinklers and standpipe systems, water supply systems, portable fire extinguisher, and fire alarm devices and systems, including evaluation of the operational readiness of the systems, proper installation and location of system components and devices, and maintenance of systems.	5.2%
PUBLIC FIRE EDUCATION Knowledge of the principles of public fire education needed to inform the public about fire safety during the performance of regular fire investigation duties.	5.0%
PUBLIC RELATIONS Knowledge of accepted public relations practices in order to interact with other agencies, the public, and the media in various situations.	9.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
FIRE SERVICE MANAGEMENT Knowledge of the principles of fire service management, including performing duties requiring interpretation of laws and policy and planning operations to handle fire investigation problems or enhance division programs.	5.0%

REFERENCE LIST

While the entire list of reference material will be useful to you in your preparation for the upcoming examination, the **majority** of test questions are constructed from those references listed under the Primary List.

PRIMARY REFERENCE MATERIAL

KIRK'S FIRE INVESTIGATION, Brady, A Prentice-Hall Division, Englewood Cliffs, New Jersey, 07632, 5th ed., 2002.

EFFECTIVE SUPERVISORY PRACTICES, International City Management Association (ICMA), 1120 G Street, N.W., Washington, D.C. 20005, 4th ed., 2005.

NOTE: Obtain through LSU Firemen Training Program or IFSTA Fire Protection Publications.

INTERNATIONAL FIRE SERVICE TRAINING ASSOCIATION (IFSTA)/ FIRE PROTECTION PUBLICATIONS (Training Manuals):

Introduction to Fire Origin and Cause, 3rd ed., 2005.

Essentials of Firefighting and Fire Department Operations, 5th ed., 2008.

Fire Inspection and Code Enforcement, 6th ed., 1998.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATIONS AND STANDARDS:

FIRE PROTECTION HANDBOOK, NFPA, 19th ed., 2003.

BUILDING CONSTRUCTION FOR THE FIRE SERVICE, NFPA, Brannigan, Francis L., 4th ed., 2008.

The local civil service board should make this study guide available to all applicants in whatever manner the board deems appropriate.

While there are no provisions requiring this office to provide study guides for any competitive or promotional examinations, such material will be provided as a service to assist applicants in preparing for an examination. The State Examiner's office has no control whatsoever over the local availability of reference material (mentioned in the study guides), nor do we feel constrained to limit examination questions to only that material which is available locally. Examination content, weighting of subject areas, and length of examination, may vary with each administration of an examination to reflect any

updated job analysis information. Percentages and numerical estimations are provided as approximations.